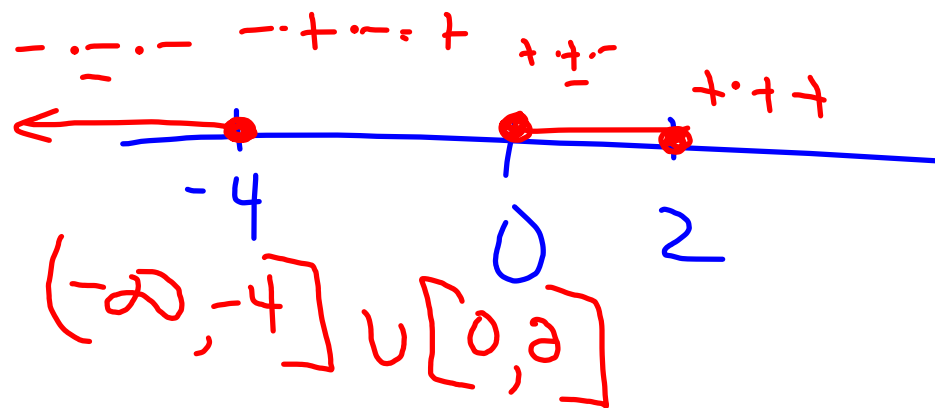


$$x^3 + 2x^2 \leq 8x$$

$$x^3 + 2x^2 - 8x \leq 0$$

$$x(x^2 + 2x - 8) \leq 0$$

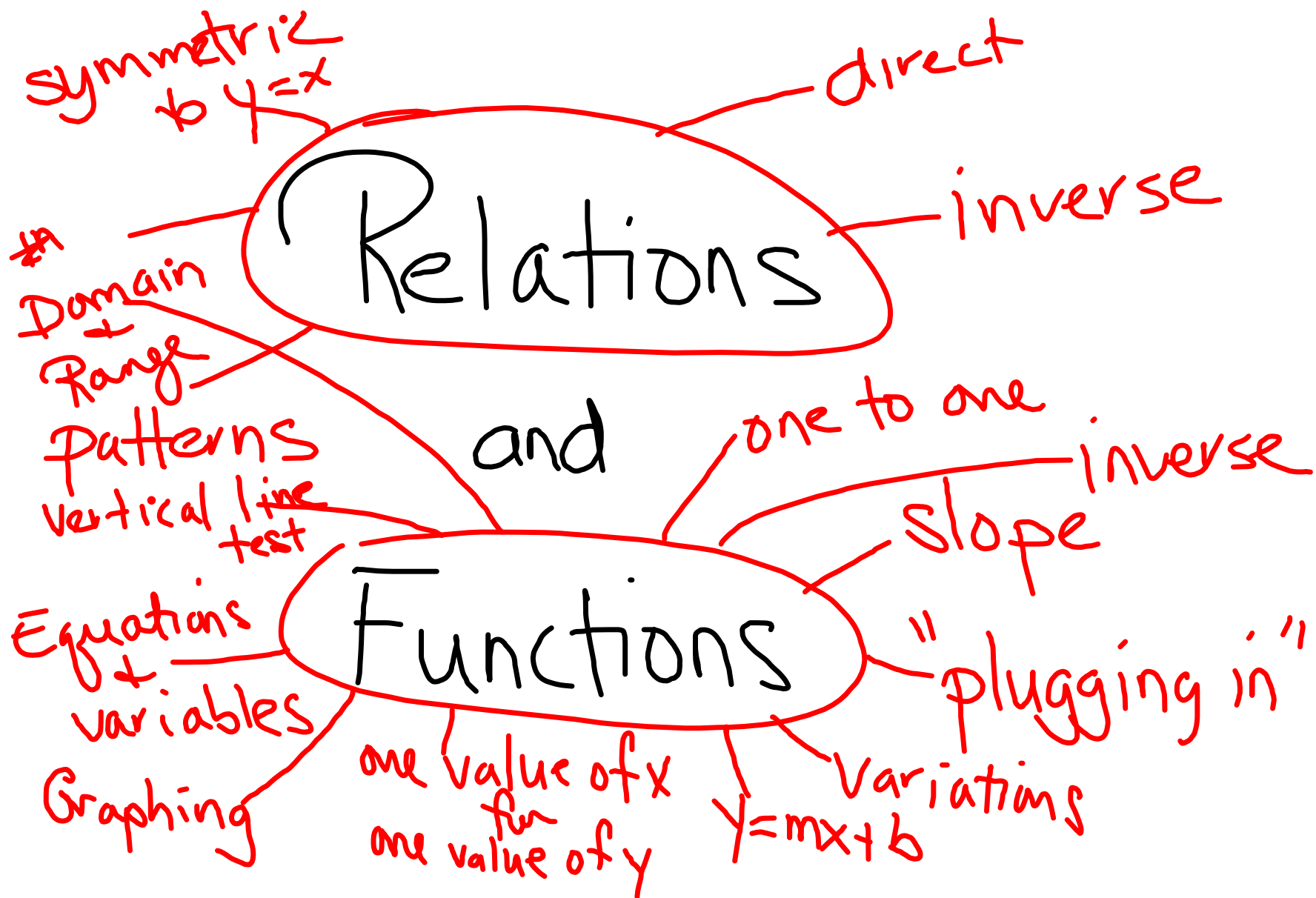
$$x(x+4)(x-2) \leq 0$$



Solve and write solution in interval notation.

1. $x^2 - 5x \geq 36$

2. $\frac{x-2}{x^2+5x+6} < 0$



Relation - set of points

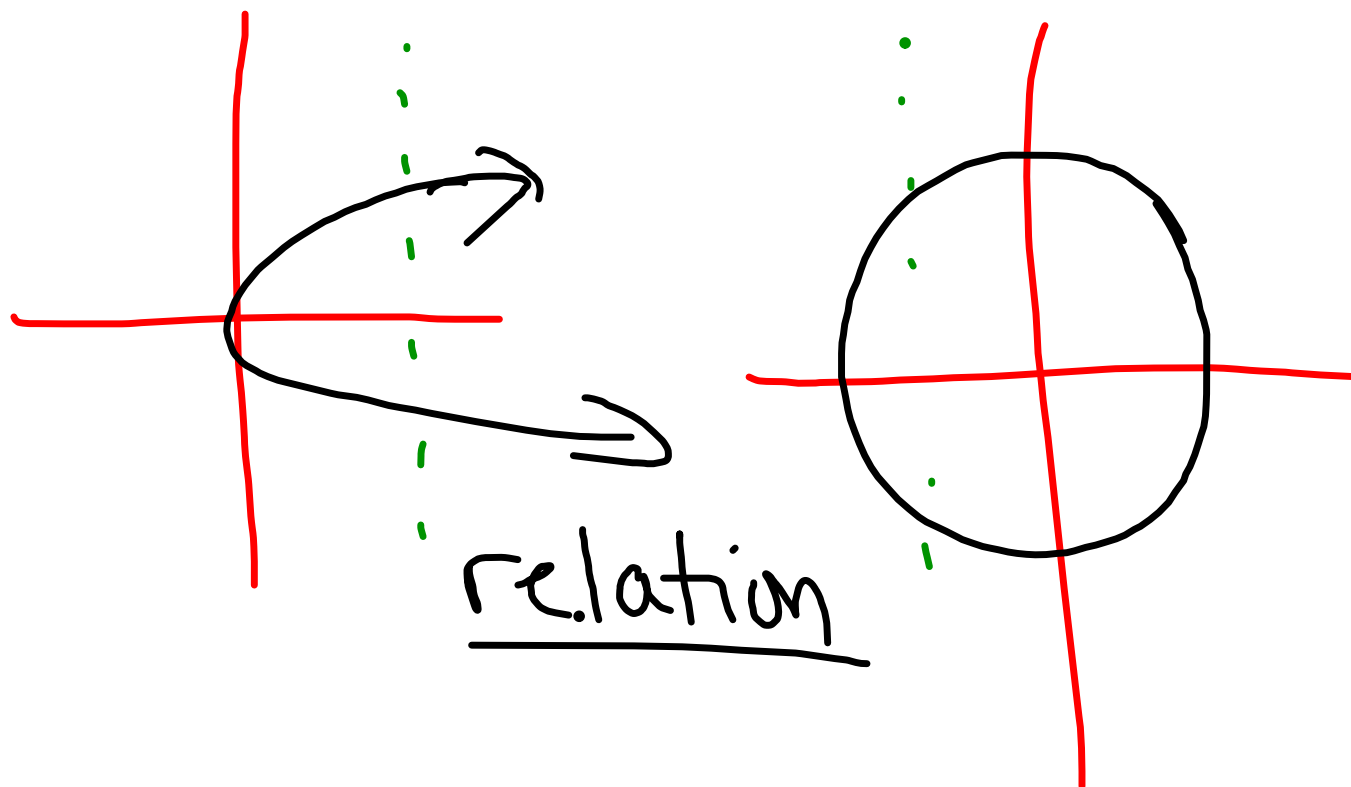
$$\{(1, 2), (-2, 0), (-3, 5), (4, 8)\}$$

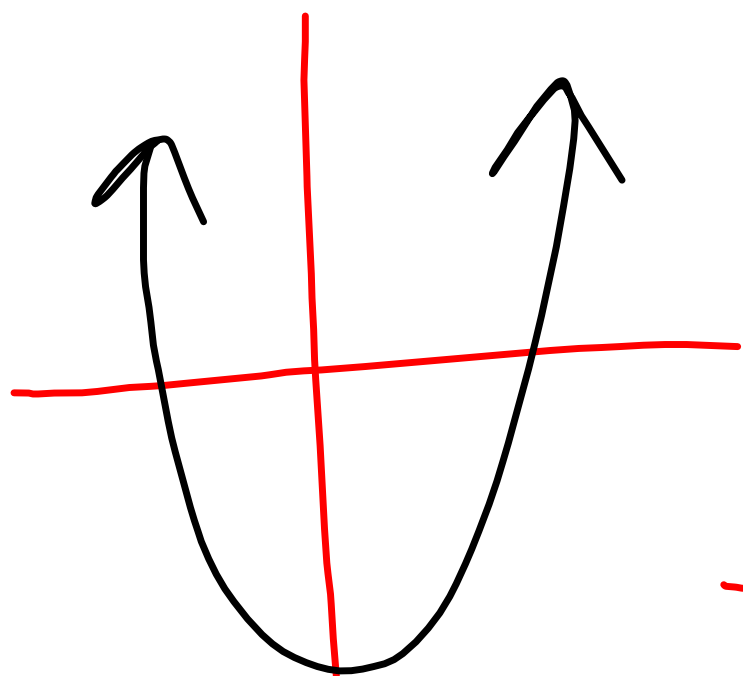
Function - set of order pairs
but the domain doesn't repeat.

$$\{(0,5), (5,2), (0,8), (-1,5)\}$$

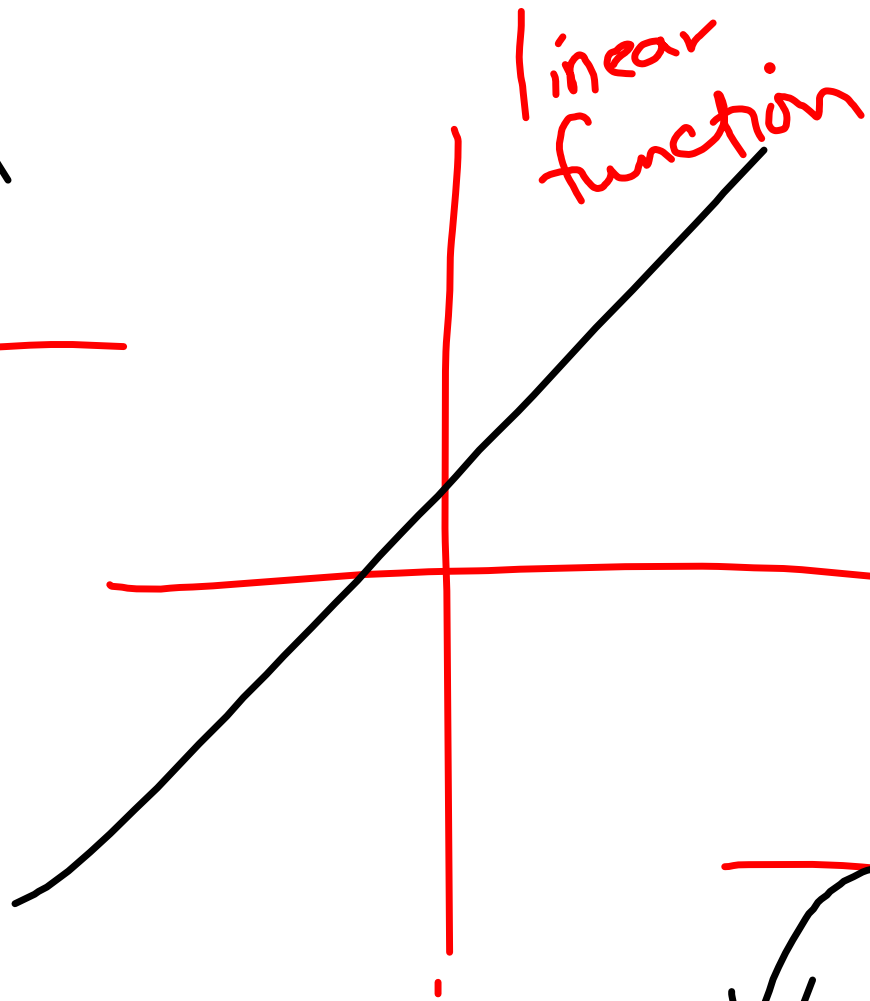
not a function - relation

Vertical Line Test

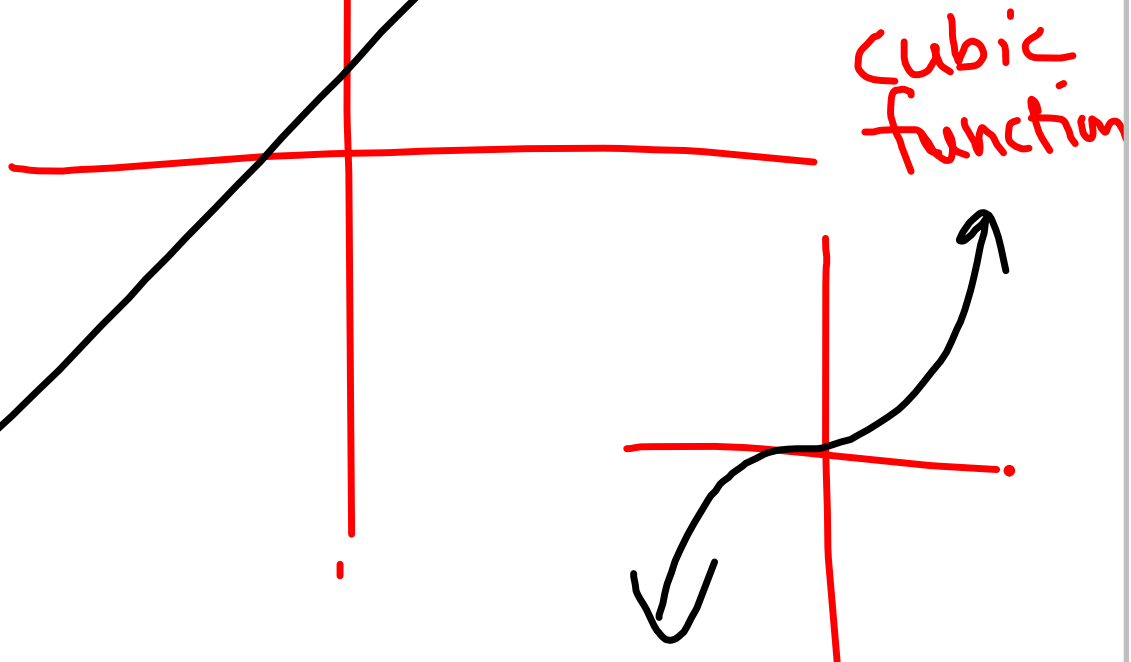




quadratic
function



linear
function



cubic
function

P. 219-220
1-17 odd